AUDIO ENHANCEMENT

Receiver LED Status Indicators

CAT6

Microphone 1 Active

Microphone 2 Active

System Power ON

Front Panel Terminals

Microphone and I/O Connections

PoE Network Connection

Line Output

DC Power Input

Reset Button
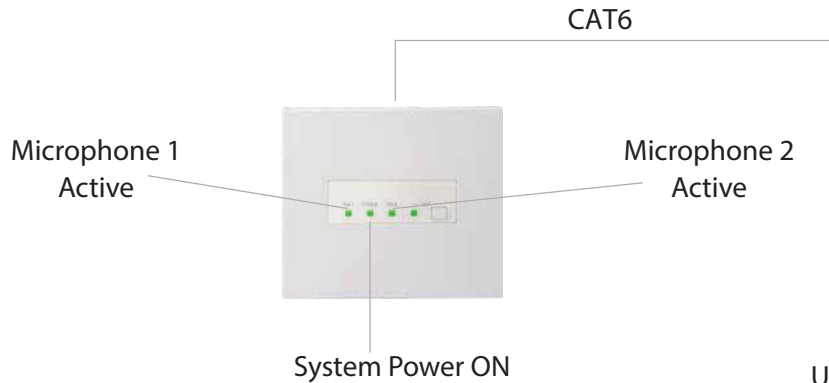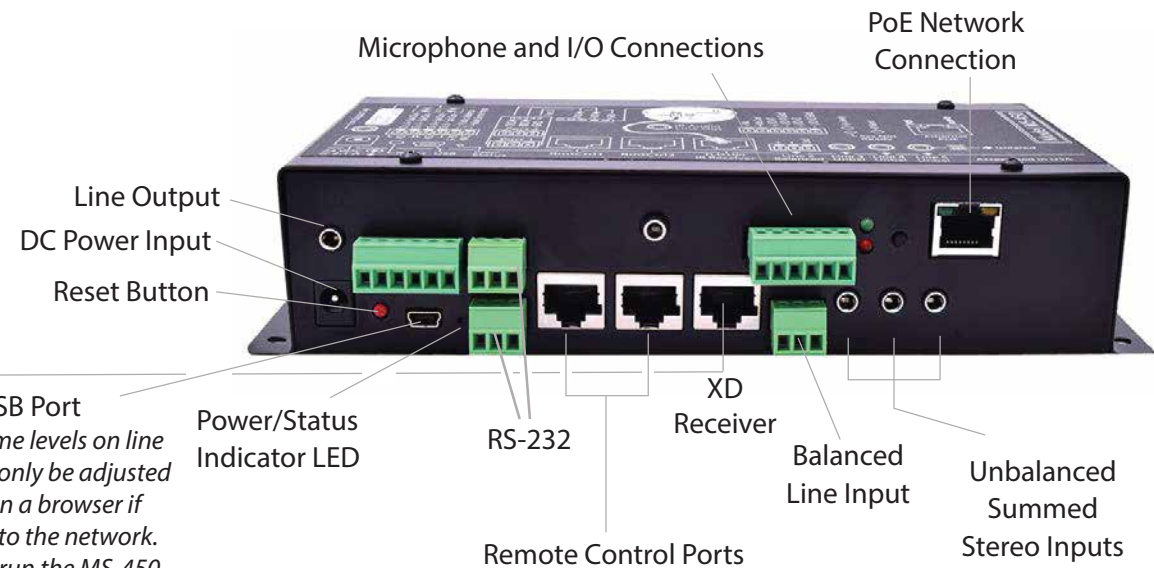
USB Port
Note: Volume levels on line inputs can only be adjusted via USB or in a browser if connected to the network. Install and run the MS-450 software before connecting the USB.

Power/Status Indicator LED

RS-232

XD Receiver

Remote Control Ports

Balanced Line Input

Unbalanced Summed Stereo Inputs

UP Volume

DOWN Volume

Note: Individual volume levels of the Teacher Microphone can be adjusted with the UP and DOWN volume buttons.

Press & hold the PWR button to turn the mic on or off.

A momentary press of the PWR button will mute or unmute the microphone audio. If muted for more than 5 minutes, the microphone will turn off automatically.
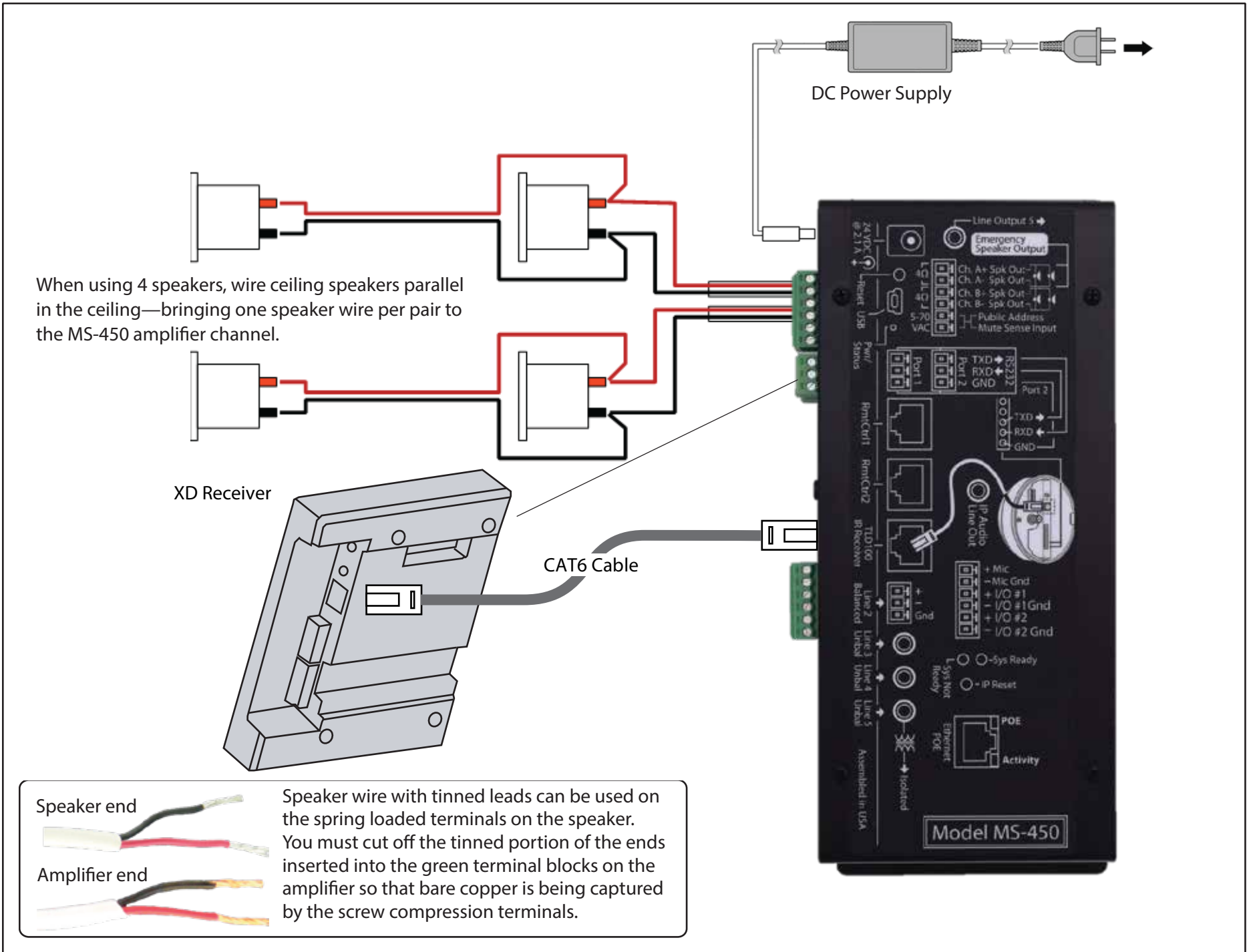
Charging the XD Teacher Microphone

Step 1. Connect the micro-USB plug of the charger to the DC input terminal of the microphone.
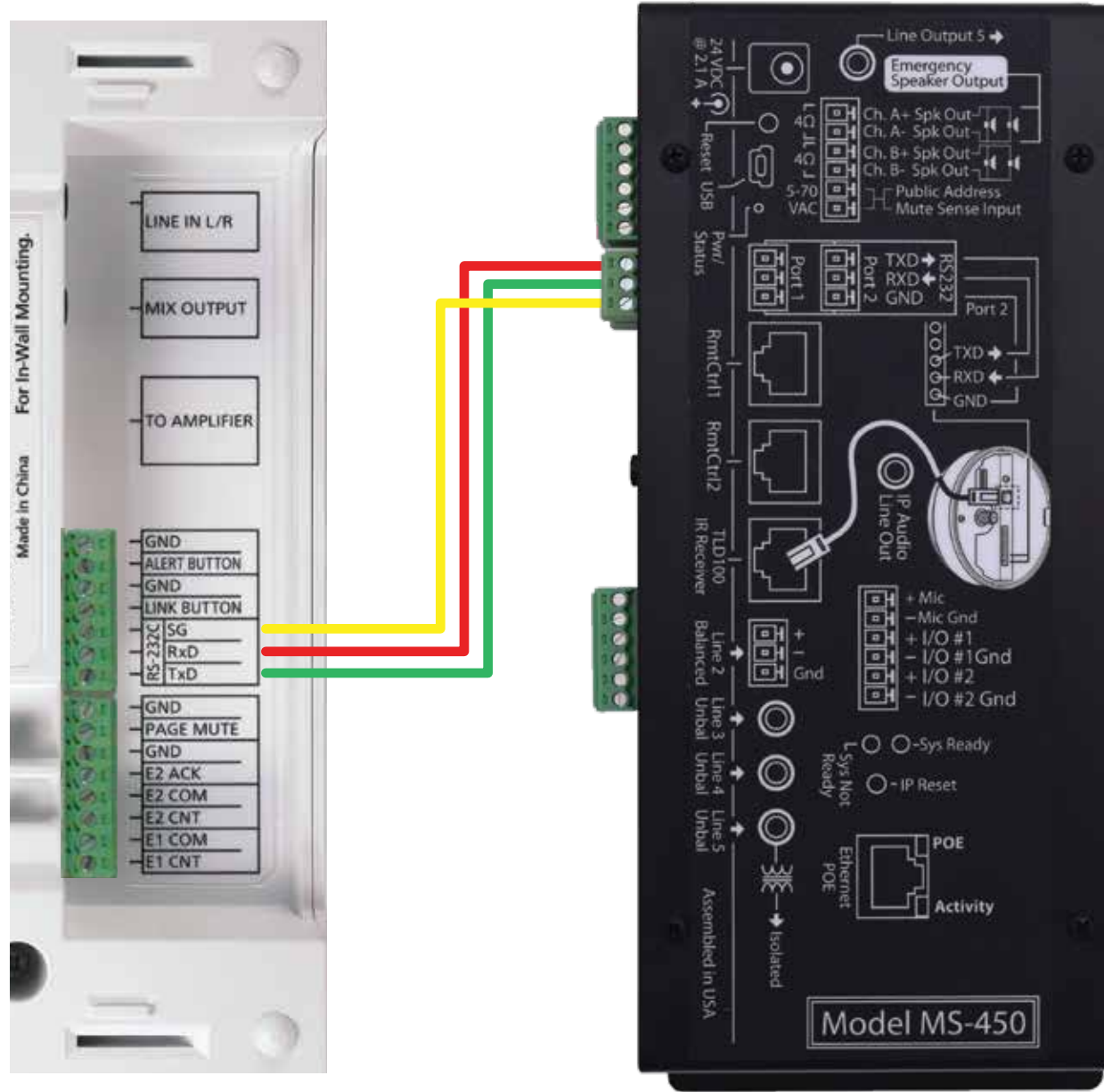
Step 2. The charger indicator light will blink at 2-second intervals

Step 3. The charger indicator light will remain on once fully charged.

DC Power Supply

When using 4 speakers, wire ceiling speakers parallel in the ceiling—bringing one speaker wire per pair to the MS-450 amplifier channel.

XD Receiver

CAT6 Cable

Line Output 5 →
Emergency Speaker Output
24 VDC @ 2.1 A
Reset   USB
Ch. A+ Spk Out~
Ch. A- Spk Out~
Ch. B+ Spk Out~
Ch. B- Spk Out~
Public Address
Mute Sense Input
5-70 VAC
Pwr/ Status

Port 1   Port 2
TXD → RS232
RXD ←
GND

Port 2
TXD →
RXD ←
GND

RmtCtrl1
RmtCtrl2
TLD100 IR Receiver

IP Audio Line Out

+ Mic
- Mic Gnd
+ I/O #1
- I/O #1Gnd
+ I/O #2
- I/O #2 Gnd

Line 2 Balanced
+ - Gnd

Line 3 Unbal
Line 4 Unbal
Line 5 Unbal

Isolated

○ ○–Sys Ready
○ –Sys Not Ready
○ – IP Reset

Ethernet POE
POE
Activity

Assembled in USA

Model MS-450

Speaker end

Amplifier end

Speaker wire with tinned leads can be used on the spring loaded terminals on the speaker. You must cut off the tinned portion of the ends inserted into the green terminal blocks on the amplifier so that bare copper is being captured by the screw compression terminals.

Remote Volume Control of the Teacher and Student Microphones

Teacher Microphone (OWN) Level Adjustment

UP Volume

DOWN Volume

Press either the UP or DOWN arrow button to increase or decrease the level of the Teacher microphone. A blue LED over the **OWN** (for own microphone) will flash with each press.

The "SELECT" button determines which level will be controlled by the UP/DOWN buttons

Student Microphone (OTHER) Level Adjustment

To adjust the Student Microphone (**OTHER**) volume, first press the **SELECT** button so that the LED over the **OTHER** label comes on. Now press the UP/DOWN buttons to control the level of the **OTHER** microphone, which is typically the Student Microphone.

Multimedia Level Adjustment

Selecting the LINE audio source will control the volume of audio devices that you have plugged into the "Line In" input on the XD receiver or Input 5 on the MS-450 if the RS232 lines are connected.

Pairing Microphones to Your Receivers

Your XD microphones should already be paired to the receiver. You can check this by turning on your Teacher and Student Microphones (Teacher Mic: press PWR for 1 second; Student Mic: flip TALK switch up). If the LED under the BATT indicator turns green, the mic is paired. If the LED blinks another color (orange), then turn off your microphones and use the following instructions to pair them to the receiver.

Teacher Mic

Student Mic

Teacher Microphone

- Turn mic off: press and hold **PWR/MUTE** until the green BATT light extinguishes.
- Press the **LINK** button on the receiver (LINK LED will blink yellow).
- Press and hold the **PWR/MUTE** and **REC** buttons on the Teacher Microphone until the microphone links. You will know it is linked when the BATT LED on the microphone and LINK LED on receiver glow green and an audible beep will sound through the speakers.

Student Microphone

- Turn mic off: flip the **TALK** switch down. The green BATT light will extinguish.
- Press the **LINK** button on the receiver (LINK LED will blink yellow).
- Press and hold the **LINK** button and flip up the **TALK** switch on the Student Microphone until the microphone links. You will know it is linked when the BATT LED on the microphone and LINK LED on receiver glow green and an audible beep will sound through the speakers.